WELL CONSTRUCTION AND TEST RIGHTS OF COLORADO, OFFICE OF THE STATE E 1313 Sherman St., Rm 818, Denver, CO 80203	NGINEER							
1. WELL PERMIT NUMBER 2/0286	JUL 1 0 1998							
2. OWNER NAME(S) PUBLIC SERVICE COMPANY OF Mailing Address 1225 SEVENTEENTH STREET, STORY, St. Zip DENVER, COLORADO 80202 Phone (303) 294-8566								
3. WELL LOCATION AS DRILLED: NE 1/4 SE 1/4, Sec. 20 Twp. 21 S , Range 64 W . DISTANCES FROM SEC. LINES: 3,940 ft. from N Sec. line. and 830 ft. from E Sec. line. OR SUBDIVISION: LOT - BLOCK - FILING(UNIT) STREET ADDRESS AT WELL LOCATION: COMANCHE STATION, 2005 LIME RD, PUEBLO, CO 81006								
4. GROUND SURFACE ELEVATION 4807 ft. DRILL								
DATE COMPLETED MAY 20, 1997 TOTAL DE 5. GEOLOGIC LOG: Depth Description of Material (Type, Size, Color, Water Location) 0'-2' COAL DUST, MIXED WITH SILT, LOOSE, DRY, BROWN.	6. HOLE DIAM. (in.) From (ft) To (ft)							
2'-29.5' CLAY, STIFF, MORE SANDY AND GRAVELLY WITH DEPTH, DRY TO MOIST, BROWN, RUST. 29.5'-30' CLAYSTONE, WEATHERED, STIFF, BLOCKY, MOIST, OLIVE, RED.	7. PLAIN CASING OD (in) Kind Wall Size From(ft) To(ft) 2 PVC 0 14 CAPPED AT TOP WITH A LOCKING J-PLUG.							
NOTES: 1) BOTTOM 1 FOOT OF HOLE WAS BACKFILLED TO SET BOTTOM OF CASING AT 29 FEET. 2) GROUND WATER WAS MEASURED AT 13 FEET AT TIME HOLE WAS DRILLED.	PERF. CASING: Screen Slot Size: 20 2 PVC 14 29							
3) GDI DRILLING COMPANY WAS CONTRACTED TO DRILL HOLE.	8. FILTER PACK: Material SILICA SAND Size 10/20 Interval 13' - 29' Depth							
(W-3) REMARKS: THIS IS A MONITORING WELL FITTED WITH A LIMITED ACCESS MONITORING WELL	10. GROUTING RECORD: Material Amount Density Interval Placement CONCRETE 150PCF 0'-3.5' POURED							
PROTECTOR TYPE STEEL RISER (GROUTED).	Amt. Used _							
11. DISINFECTION: Type Amt. Used								
13. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.] CONTRACTOR CTL/THOMPSON, INC. Phone (303) 825-0777 Lic. No Mailing Address 1971 WEST 12TH AVENUE, DENVER / COLORADO (80204)								
Mailing Address 1971 WEST 12TH AVENUE, DENVER COLORADO 80204 Name/Title (Please type or print) FRANK J. HOLLIDAY, PE / PRINCIPAL AUGUST 19, 1998								

The report must be typed or printed in <u>BLACK INK</u>. All changes on the form must be initialed and dated. Attach additional sheets if more space is required. Each additional sheet must be identified at the top by the well owner's name, the permit number, form name/number and a sequential page number. Report depths in feet below ground surface.

This form may be reproduced by photocopy methods, or by computer generation with prior approval by the State Engineer. Photocopy reproductions must retain margins and print quality of the original form.

The original form must be submitted to the State Engineer's Office within 60 days after completing the well or 7 days after the permit expiration date, whichever is earlier.

A copy of the form must be provided to the well owner.

- 1. Complete the Well Permit Number in full.
- 2. Fill in Name and Mailing Address of Well Owner where correspondence should be sent.
- 3. Complete the blocks for the actual location of the well where drilled. If the owner has more than one well serving this property, provide the identification (Owner's Designation) for this well. DO NOT USE THE OWNER SUPPLIED LOCATION unless a survey has been provided. For wells located in subdivisions the lot, block and subdivision information must also be provided.
- 4. Report the ground surface elevation in feet above sea level if available. This value may be obtained from a topographic map. Describe the drilling method used to construct the well and the date completed. Indicate the total depth drilled and the actual completed depth of the well.
- 5. Fully describe the materials encountered in drilling. Do not use formation names unless they are in conjunction with a description of materials.
 Examples of descriptive terms include:
 Grain size--Boulders, gravel, sand, silt, clay.
 Hardness--Loose, soft, tight, hard, very hard.
 Color--All materials. Most critical in sedimentary rock.
 Depth when water is encountered (if it can be determined).
- 6. Provide the diameters of the drilled bore hole.
- 7. The outside diameter, kind, wall thickness and interval of casing lengths must be indicated.
- 8. Indicate the type and size of filter (gravel) pack and the interval where placed.
- 9. Indicate the type and setting depth for any packers installed.
- 10. The density of the grout slurry must be reported and may be indicated as pounds per gallon, gailons of water per sack, total gallons of water and number of sacks used, etc. Specify the grout placement method, i.e. tremie pipe or positive displacement. The percentage of additives mixed with the grout should be reported under remarks.
- 11. Record the type and the amount of disinfection used, how placed and the length of time left in the hole.
- 12. Report well test data as required by Rule 10.7. Spaces are provided to report all measurements made during the test. The report should show that the test complied with the provisions of the rules. If a test was not performed explain when it will be done. If available, report clock time when measurements were taken.
- 13. Fill in Company Name and Address of Contractor who constructed the well. The report must be signed by the licensed contractor responsible for the construction of the well.

Form No.

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203 (303) 866-3581

LIC

APPLICANT

 WELL PERMIT NUMBER
 210286

 DIV. 2
 CNTY. 51
 WD
 15
 DES. BASIN
 MD

_ot: Block: Filing: Subdiv:

APPROVED WELL LOCATION

PUEBLO COUNTY

NW 1/4 SE 1/4 Section 20

Twp 21 S RANGE 64 W 6th P.M.

DISTANCES FROM SECTION LINES

3940 Ft. from North Section Line

830 Ft. from

East Section Line

(303)294-8566

PERMIT TO USE AN EXISTING WELL

1225 17TH ST STE 900 DENVER CO 80202-

PUBLIC SERVICE CO OF COLORADO

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(l) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice **MH-30645**, **known as W-3**.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug and seal this well in accordance with the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging and sealing.
- 8) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well shall be located not more than 200 feet from the location specified on this permit.

APPROVED KWM

Receipt No.

0430074C

DATE ISSUED

JUN 0 9 1998

EXPIRATION DATE

JUN 0 9 2000

3X25

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., RM. 818, DENVER CO 80203
phone - info: (303) 866-3587 main: (303) 866-3581

400 17LOE.

MAY 11 1998

Water Wells Permit Application

MONITORING/OBSERVATION

Must be completed in black ink or typed Review instructions prior to completing form. 6. USE OF WELL 1. APPLICANT INFORMATION Name of applicant GROUND WATER SAMPLING (quality) ☐ MONITOR WATER LEVELS Public Service Company of Colorado ☐ OTHER: Mailing Address 7. WELL DATA Total depth Aquifer 1225 17th Street, Suite 900 State Zip code 8. CONSULTANT INFORMATION (optional) CO 80202 Denver Telephone number (include area code) (303) 294-8566 Address 2. TYPE OF APPLICATION (check applicable box(es)) Telephone number (include area code) ☐ Replacement for --Use existing well ☐ Construct new well permit no. 9. PROPOSED WELL DRILLER (optional) ☐ Other: License number 3. REFER TO (if applicable): Well name or # Monitoring hole acknowledgment # 30645 W-310. SIGNATURE of applicant(s) or authorized agent The making of false statements herein constitutes perjury 4. LOCATION OF WELL Quarter/quarter Quarter in the second degree, which is punishable as a class 1 mis-County Pueblo SE NVIdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read Range E or W Principal Meridian Township N or S the statements herein, know the contents thereof, and state Section that they are true to my knowledge. 64 🗆 🛛 6 20 21 Distance of well from section lines ft. from 🖾 E 🗆 W 3,940 ft. from 🛛 N 🔲 S 830 Well location address, if different from applicant address (if applicable) Comanche Station 2005 Lime Road, Pueblo, CO 81006 Charles H. Fuller For replacement wells only - distance and direction from old well to new well Date direction General Manager. Commodity Services 5. OWNERSHIP INFORMATION See the reverse side of this form for instructions, fee, and WELL OWNER NAME (if different than applicant) advisory information OPTIONAL INFORMATION Address Surface dev. USGS map name DWR man no. Zip Code Office Use Only Telephone no. (include area code) PROPERTY OWNER NAME (if different than above) Address Zip Code State Telephone no. (include area code) DIV OF WATER RESOURCES

Form GWS-46 (12/95)

MONITORING & OBSERVATION WELL PERMIT APPLICATION INSTRUCTIONS

ADVISORY INFORMATION: MONITORING WELLS ARE TO BE USED FOR MONITORING OF WATER LEVELS AND WATER QUALITY SAMPLING PURPOSES ONLY — AT ANY TIME THAT AN AUTHORIZED INDIVIDUAL IS NOT PRESENT SUPERVISING MONITORING & SAMPLING OF THE WELL, THE WELL IS TO BE SECURELY CAPPED & LOCKED. For RECOVERY wells use General Purpose form GWS-45 (12/95), do not use this form. For well construction criteria refer to the Colorado Water Well Construction Rules, 2CCR 402-2. A copy of the Rules may be obtained from any Division of Water Resources Office for a fee of \$3.

FEES A \$60 non-refundable filing fee is required for each application. The fee for replacement wells is \$20. Checks should be payable to the COLORADO DIVISION OF WATER RESOURCES. An application must be submitted for <u>each</u> well.

ALL APPLICATIONS MUST BE COMPLETED IN BLACK INK OR TYPED

- ITEM 1 APPLICANT INFORMATION This is the applicant's name and the address where all correspondence will be sent.
- ITEM 2 TYPE OF APPLICATION Check applicable box(es).
- ITEM 3 REFER TO (if applicable) Provide MH number assigned by Division of Water Resources in response to notice of intent to construct a monitoring and observation well. Complete WELL NAME if the structure has a name or identifying number.
- ITEM 4 LOCATION OF WELL The location of the well must be correctly and accurately described. The county, ¼-¼ (quarter/quarter), section, township, range, principal meridian, and distance from section lines must be provided. If the well location address is different than ITEM 1, provide the well location address, or state "same as 1." If this is for the replacement of an existing well, provide the information requested in the last blank of item 4.
- ITEM 5 OWNERSHIP INFORMATION If the owner is not the applicant, complete this information.
- ITEM 6 USE OF WELL Check applicable entry for the intended use(s).
- ITEM 7 WELL DATA The actual or anticipated total depth must be provided. Provide the name of the aquifer in which the well will be completed.
- ITEM 8 CONSULTANT INFORMATION (optional) Provide company name, address, phone, & contact person.
- ITEM 9 PROPOSED WELL DRILLER (optional) Provide name & license number. The well must be constructed in compliance with the Well Construction Rules, 2CCR 402-2, unless a variance has been approved allowing an alternative construction design.
- SIGNATURE An ORIGINAL signature of either the applicant or consultant must be on each application. Please print the name and title of the person signing the application, and include the date.
- OPTIONAL INFORMATION

 If known, you may complete this information. This information is helpful in the evaluation of the application, and may be completed by the applicant, consultant, or staff evaluator.

IF YOU HAVE ANY QUESTIONS regarding any item on the application form, please call the Division of Water Resources Ground Water Information Desk (303-866-3587), or the nearest Division of Water Resources Field Office located in Greeley (970-352-8712), Pueblo (719-542-3368), Alamosa (719-589-6683), Montrose (970-249-6622), Glenwood Springs (970-945-5665), Steamboat Springs (970-879-0272), or Durango (970-247-1845).

Jate: 6/8/98

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OTHER	Various Pain lande																			
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IMPROPER CONST	7)	7																	
NOT PERMITTED WITHIN YEAR																				
NO VALID NOTICE NOT								1971												
NO VALID MH NUMBER									.			1			1					
RECEIPT NUMBER	4300144	8	O																	



ALESOURCES STATE ENGINEER

Environmental Services Department PO Box 840 Denver, Colorado 80202-0840 Fox 303.571.7880

PUBLIC SERVICE COMPANY OF COLORADO" SOUTHWESTERN PUBLIC SERVICE COMPANY" CHEYENNE LIGHT FUEL & POWER"

July 8, 1998

John Bilisoly
Phy. Sci. Researcher/Sci. Intern
Division of Water Resources
Department of Natural Resources
Colorado State Engineer
1313 Sherman St., Room 818
Denver, CO 80203

RE: Public Service Company of Colorado – Comanche Station – Ground Water

Monitoring Well Permit Applications

Dear John:

In May 1998, Public Service Company of Colorado (PSC) submitted to the Division of Water Resources three monitoring well permit applications for monitoring wells constructed at Comanche Station. Subsequently, the Division of water Resources indicated that additional information was required for the permits to be issued.

On June 8, 1998, PSC faxed well construction information for the three wells to the Division of Water Resources. This information allowed the Division of Water Resources to issue the permits for the wells with the provision that PSC would submit, to the Division of Water Resources, information concerning the well construction for each well using form GWS-31 and request a variance for the wells with a depth of less than 20 feet.

Attached for each of these three ground water monitoring wells is a copy of the original monitoring well permit application; the well construction summary which was submitted on June 8, 1998; the permit issued, by the division of Water Resources, for each well, and the well construction information for each well on form GWS-31.

The information from the GWS-31 forms indicates that wells W-1 and W-2 require a variance from the Division of Water Resources due to a depth of less than thirty feet. A copy of the variance request has been attached.

JUL 1 0 1998

SOURCES STATE ENGINEER COLO.

If you have any questions concerning the attached information or require additional information to complete the permit application for these wells at PSC's Comanche Station, please call me at (303) 571-7440.

Sincerely,

Eldon Lindt

Team Lead, Air & Water

Attachments:

(for wells W-1, W-2, and W-3)
Monitoring Well Permit Application
Construction Summary Information Submitted On June 8, 1998
Well Permits From The Division of Water Resources
GWS-31 Construction Information Forms

Monitoring Well Variance Request

Cc: Jim Weller - PSC

Olon Plunk - NCS

Mark Andorka – PSC Dean Metcalf – NCS

JUL 1 0 1998

WATEH RESOURCES STATE ENGINEER COLO.

Comanche Station

Monitoring Well W-3 Information

Monitoring Water Well Permit Application
Construction Summary Information (Submitted June 8, 1998)
Permits Issued By the Division of Water Resources
GWS-31 Construction Information Form

Monitoring Well Construction Summary



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS 1971 WEST 12TH AVE. DENVEN. CO BO204 13031 825-0777

JUL 1 0 1998

JOB NO. 26,020	MONITORING WELL NO. W-3 WASSAGES
JOB NAMECOMANCHE	STATE ENGINEER COLO
ENGINEER SCHNEIDER	DATE MEASURED
INSTALLATION DATE 5/20/97	GROUNDWATER SAMPLING DATE (S) N/A
GROUND ELEVATION 4807	

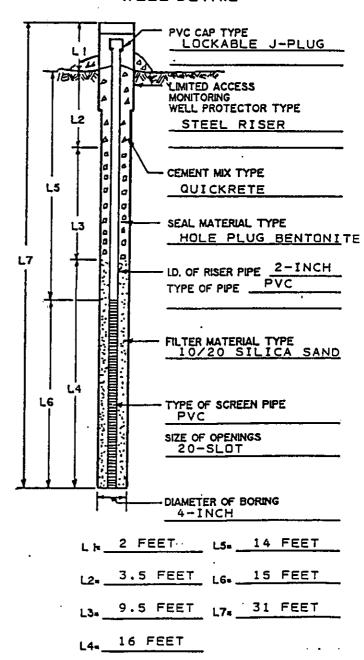
SUMMARY LOG OF BORING

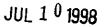
<u> 500</u>	MARY	<u> </u>	OF BORING
DEP FROM		SOIL SYMBOL	SOIL DESCRIPTION
0	2	FILL	COAL DUST AND
			SILT, DRY,
			LOOSE, BROWN,
			BLACK
2	29.5	CL	CLAY, DRY TO
			MOIST, STIFF,
			BLOCKY, INCR-
			EASING SAND
			AND GRAVEL
			WITH DEPTH
29.5	30	BR	CLAYSTONE,
			WEATHERED,
			BLOCKY, STIFF.
			MOIST, OLIVE,
			RED

	•		
			
			_
		-	
		·	
•			
			
			
	•		

REMARKS:

WELL DETAIL







Environmental Services Department PO Box 840 Denver, Colorado 80202-0840

Fax 303.571.7880

PUBLIC SERVICE COMPANY OF COLORADO" SOUTHWESTERN PUBLIC SERVICE COMPANY" CHEYENNE LIGHT FUEL & POWER"

July 8, 1998

Mr. Dave McElhaney
Division of Water Resources
Department of Natural Resources
Colorado State Engineer
1313 Sherman St., Room 818
Denver, CO 80203

RE:

Public Service Company of Colorado - Comanche Station - Ground Water Monitoring Well Permit Applications

Dear Mr. McElhaney:

In May 1997, Public Service Company of Colorado (PSC) contracted the construction of three ground water monitoring wells at the Comanche Power Station in Pueblo, CO. In May 1998, ground water monitoring well permit applications were submitted, to the Division of Water Resources, for these wells.

In June 1998, the Division of Water Resources indicated that two of the monitoring wells required variances due to the well depths. Information on wells identified as W-1 and W-2 are provided as attachments.

With respect to the ground water construction requirements in 2 CCR-402-2 Sections 10.4.3 and 10.5.2.1, PSC is requesting a variance for wells W-1 and W-2 constructed at Comanche Station in May 1997. These wells were constructed to monitor shallow ground water quality and construction of the wells to comply with Sections 10.4.3 and 10.5.2.1 would have been impractical and inhibited the intended use of the well.

If you have any questions concerning the construction of the wells at Comanche Station or PSC's variance request, please call me at (303) 571-7440.

Sincerely,

Eldon Lindt

Team Lead, Air & Water

John Simll

Attachments: (for wells W-land W-2)

Monitoring Well Permit Application

Construction Summary Information Submitted On June 8, 1998

Well Permits From The Division of Water Resources

GWS-31 Construction Information Forms

Cc:

Jim Weller - PSC

Olon Plunk - NCS

Mark Andorka - PSC

Dean Metcalf - NCS

STATE OF COLORADO

BOARD OF EXAMINERS OF WATER WELL CONSTRUCTION AND PUMP INSTALLATION CONTRACTORS

Division of Water Resources
Department of Natural Resources

1313 Sherman Street, Room 818 Denver, Colorado 80203 Phone (303) 866-3581 FAX (303) 866-3589

July 17, 1998



Roy Romer Governor

James S. Lochhead Executive Director, DNR

Hai D. Simpson Secretary

Mr. Eldon Lindt New Century Energies Environmental Services Department P.O. Box 840 Denver, CO 80202-0840

RE:

Request for Variance, Monitoring Holes MH-30645, (W-1, W-2 and W-3) Public Service

Company, Comanche Station, Sec. 20, T21S, R64W, 6th PM, Pueblo County

Request No: 98-140A

Dear Mr. Lindt:

Thank you for the Request for Variance received July 10, 1998 regarding the subject monitoring holes. Your request has been reviewed for the Board of Examiners of Water Well Construction and Pump installation Contractors. The request is specifically for a variance from Rules 10.4.3 and 10.5.2.1.

Pursuant to Rule 18 and the authority granted by the Board, the required variance to rules 10.4.3 and 10.5.2.1 is granted subject to the following conditions:

- 1) The well construction will be in accordance with the Water Well Construction Rules except those Rules for which a variance was granted.
- 2) The Monitoring holes are constructed in a similar manner to the diagrams provided.

Granting the request for variance to minimum water well construction standards does not relieve the owner of potential responsibility or liability in the event contamination of the water source results from such construction, nor does the grantor assume any responsibility or liability should contamination occur.

If you have any questions regarding this matter please contact this office.

Sincerely

George D. VanSlyke

Chief, Geotechnical Services

GDV/gla:s:\bordexam\variance98\98-140A.doc

cc: Well File MH-30645



PUBLIC SERVICE
COMPANY OF COLORADO"

SOUTHWESTERN
PUBLIC SERVICE COMPANY"
CHEYENNE LIGHT
FULL A DOWERT

STATE ENGINEE COLO onmental Services Department

Environmental Services Department PO Box 840 Denver, Calorado 80202-0840 Fax 303.571.7880

December L 1999

John Bilisoly

Phy. Sci. Researcher/Sci. Intern Division of Water Resources Department of Natural Resources Colorado State Engineer 1313 Sherman St., Room 818 Denver, CO 80203

RE:

Public Service Company of Colorado - Comanche Station Ground Water Monitoring Wells - Permit No. 210284 Permit No. 210285 Permit No. 210286

Dear John:

As discussed today this letter is provided to ensure that the Division of Water Resources' files are complete with respect to the permitting of the ground water monitoring wells at Comanche Station. The attached information includes the following:

- A copy of a letter dated July 8, 1998, is provided as Attachment I. This letter provided a copy of Monitoring Well Permit Application (GWS-41), construction summary information, well permits from the Division of Water Resources, and the Construction Information Form (GWS-31 for each well. In addition, the letter included a copy of the variance request that was submitted to Mr. Dave McElhaney.
- 2) A copy of the variance issued by the Division of Water Resources, which was dated July 17, 1998, is provided as Attachment II.

After your review of the attached information, please let me know if any additional information is needed.

Review of the permits indicates that they have an expiration date of June 9, 2000. The wells will be in service after the expiration date. Based on our discussion this morning, if the Division's files are complete no renewal application or additional information will be required to be submitted for these permits. I will contact you to discuss whether additional information is required for continued authorization of these wells by the Division of Water Resources.

If you have any questions concerning the attached information of about the ground water monitoring wells at Comanche Station, please call me at 303-571-7440.

Sincerely,

Eldon Lindt

Team Lead, Air and Water

Attachments

Cc:

Jim Weller

Olon Plunk

Mark Andorka Dean Metcalf

ATTACHMENT 1 MONITORING WELL CONSTRUCTION DOCUMENTATION	

WRJ-5-Rev. 76

818 Centennial Bidg., 1313 Sherman St., Denver, Colorado 8 PERMIT APRI IOATION TO

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in <u>BLACK</u> INK. No overstrikes or erasures unless initialed.

(...) A PERMIT TO USE GROUND WATER A PERMIT TO CONSTRUCT A WELL FOR: () A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _

AUG 20 1987 DIV OF WATER PALACONS STATE BYGINESP COLORADO

_ COUNTY.

initialed. () OTHER	CASE NO.
WATER COOKI	CASE NO.
(1) APPLICANT - mailing address	FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN
NAME Howard Noble & Public Service	Receipt No. 79236 A /
STREET 5900 E. 39th Ave.	Basin Dist
CITY Denver, Colo 80207	CONDITIONS OF APPROVAL
TELEPHONE NO. 329-1130	This well shall be used in such a way as to cause no material injury to existing water rights. The
(2) LOCATION OF PROPOSED WELL	issuance of the permit does not assure the applicant that no injury will occur to another vested water
County Pueblo	right or preclude another owner of a vested water right from seeking relief in a civil court action.
	1) APPROVED PURSUANT TO C.R.S. 37-90-137(2) TO SATISFY THE PERMIT REQUIREMENTS OF C.R.S.
Twp. 21 5, Ang. 64 6, 6th P.M.	
(3) WATER USE AND WELL DATA	2) THIS WELL MUST BE EQUIPPED WITH A LOCKING CAP OR SEAL TO PREVENT WELL CONTAMINATION OR POSSIBLE HAZARDS AS AN OPEN WELL. THE WELL
Proposed maximum pumping rate (gpm)	MUST BE KEPT LOCKED AT ALL TIMES EXCEPT DURING SAMPLING OR MEASURING. 3) RECORDS OF WATER LEVEL MEASUREMENTS AND
Average annual amount of ground water to be appropriated (acre-feet):	WATER QUALITY ANALYSES SHALL BE MAINTAINED BY THE WELL OWNER AND SUBMITTED TO THE DIVISION OF WATER RESOURCES UPON REQUEST.
Number of acres to be irrigated:	4) UPON CONCLUSION OF THE MONITORING PROGRAM, THE APPLICANT SHALL PLUG AND ABANDON THIS WELL IN ACCORDANCE WITH THE RULES AND REGULATIONS
Proposed total depth (feet):	I FOR WATER WELL CONSTRUCTION AND PUMP
Aquifer ground water is to be obtained from:	INSTALLATION CONTRACTORS. 5) THE OWNER SHALL MARK THE WELL IN A CONSPICU- OUS PLACE WITH APPROPRIATE WELL PERMIT NUMBER
Owner's well designation MW - 1	AND NAME OF THE AQUIFER. HE SHALL TAKE NECESSARY MEANS AND PRECAUTIONS TO PRESERVE THESE MARKINGS. 1/24/87
GROUND WATER TO BE USED FOR:	1/24/37
() HOUSEHOLD USE ONLY - no irrigation (0) () DOMESTIC (1) () INDUSTRIAL (5) () LIVESTOCK (2) () IRRIGATION (6) () COMMERCIAL (4) () MUNICIPAL (8)	
(x) OTHER (9) ground water maniforing	APPLICATION APPROVED
DETAIL THE USE ON BACK IN (11)	PERMIT NUMBER 032282 - M
(4) DRILLER	DATE ISSUED AUG 25 1987
Name Her Drilling Co.	EXPIRATION DATEAUG 25 1988
Street P.O. Box 250	J. A. Danielen
City Castle Rock Colo. 80104	BY Next Vander Houst
Telephone No. <u>688-30(2</u> Lic. No. <u>8</u>	BY MINTEL WANTED TOWN

(5) THE LOCATION OF THE PROPOSED WELL and the area on	(6) THE WELL MUST BE LOCATED BELOW
which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.	by distances from section lines.
+-+-+-+-+-+	_ 360 ft. fromsec. line (north or south)
1 MILE, 5280 FEET	2485 ft. from West sec. line
+ + + + + + +	LOTBLOCKFILING #
NORTH SECTION LINE	SUBDIVISION PONE-
+ - + - + - + - +	(7) TRACT ON WHICH WELL WILL BE
NORTH	LOCATED Owner: Public Service
	No. of acres Will this be
**************************************	the only well on this tract?
NO TO THE PERSON OF THE PERSON	(8) PROPOSED CASING PROGRAM
	Plain Casing
	Yerforated casing +2 ft. to 15 ft.
SOUTH SECTION LINE	
	in. from 15 ft. to 20 ft.
	in, from ft, to ft.
	(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging
+-+-+-+	ít:
The scale of the diagram is 2 inches = 1 mile Each small square represents 40 acres.	<u> </u>
WATER EQUIVALENTS TABLE (Rounded Figures)	481.
An acre-foot covers 1 acre of land 1 foot deep 1 cubic foot per second (cfs) 449 gallons per minute (gpm)	<u></u>
A family of 5 will require approximately 1 acre-foot of water per year. 1 acre-foot 43,560 cubic feet 325,900 gallons:	
1,000 gpm pumped continuously for one day produces 4,42 acre-feet.	
(10) LAND ON WHICH GROUND WATER WILL BE USED:	
Owner(s): Public Service	No. of acres:
Legal description: (See Front) Compache Steam	Plant-/Pueblo
(11) DETAILED DESCRIPTION of the use of ground water: Househo	ld use and domestic wells must indicate type of disposal
system to be used.	ad annusis
	9
(12) OTHER WATER RIGHTS used on this land, including wells. Giv	e Registration and Water Court Case Numbers
Type or right Used for (purpose)	Description of land on which used
wik source	Bajariprion of land on writing aged
7	
(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATI	ON SET FORTH HEREON IS
TRUE TO THE BEST OF HIS KNOWLEDGE.	····
a Maria de la companya dela companya dela companya dela companya dela companya de la companya de	
SIGNATURE OF APPLICANTISI	· · · · · · · · · · · · · · · · · · ·
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COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818 Denver, Colorado 80203

RECEIVED

OCT 2 3 1987

WATER RESOURCES

STATE . ENGINEER

THIS FORM MUST BE SUBMITTED WITAIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HERE-ON. TYPE OR PRINT IN BLACK INK.

WELL COMPLETION AND PUMP INSTALLATION REPORT PERMIT NUMBER

COLO.

WELL O	WNER	Public Service		SE ¼ of the SW ¼ of Sec. 20				
ADDRES	ss <u>5</u> 900	DE. 39th Ave. Denver, CO 80	207	T. 21 S , R. 64 W , 6 P.M				
DATE C	OMPLET	ED September 4 WELL LOG		HOLE DIAMETER 8 in. from 0 to 11 ft.				
From	, То	Type and Color of Material	Water Loc.	in. fromto; ft,				
0 5 7 11	5 98 ? 11	Brown clay Yellow sandy clay Brown clay & gray shale Bottom						
		Volclay seal @ 4' up to 3.5	•	Size				
				Date Tested				
		TOTAL DEPTH 11'		Sustained Yield (Metered)				
	Use ac	ditional pages necessary to complete log.	Final Pumping Water Level					

Pump Make		
Type		
Powered by HP	F	
Pump Serial No.	1 11	
Motor Serial No.	*	WATER - WATER - WATER
Date Installed		
Pump Intake Depth		_ Wales
Remarks		類
		RUMPING
		PRAWDOWN
general and the second of the	E M	
WELL TEST DATA WITH PERMANENT PUMP	PEPTH FI	
Date Tested	L 11	CONE O
Static Water Level Prior to Test	TOTAL	DEPRESSIO
Length of Test Hours		
Sustained yield (Metered) GPM		
Pumping Water Level		
Remarks		
	*	
en : .121		
	<u> </u>	
CONTRACTORS STATEMENT	——————————————————————————————————————	
The undersigned, being duly sworn upon oath, depump installation described hereon; that he has a thereof, and that the same is true of his own known	read: the statement made her	contractor of the well or eon; knows the content
9/	1	
Signature Aleoge . S	100	License No. 735
State of Colorado, County ofDo	glas	SS
Subscribed and swern to before me this	day of Sepsember 24	, 19 <u>87</u> .
My Commission expires: February 2	23 1990	

PUMP INSTALLATION REPORT

Notary Public

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed.
WHITE AND GREEN copies roust be filed with the State Engineer, PINK COPY is for the Owner and VELLOW COPY is for the Driller.

COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

Application must be complete whole applicable Type or print in St. A.C. F. INK. No overstrikes or erasures unless initialed.

Telephone No. __ 488-3012_Lic. No.

PERMIT APPLICATION FORM

() A PERMIT TO USE GROUND WATER A PERMIT TO CONSTRUCT A WELL FOR: () A PERMIT TO INSTALL A PUMP
() REPLACEMENT FOR NO () OTHER WATER COURT CASE NO

/4) ADDI ICANIT mailing address	FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN
(1) APPLICANT - mailing address	FOR OFFICE USE UNLY: DO NOT WATTE IN THIS COLUMN
NAME Howard Noble & Public Service	Receipt No. 79236B /
	Basin Dist
CITY Denver Colo 80207	
TELEPHONE NO. 329 - 1/30	I no material injuly to existing water rights. The
(2) LOCATION OF PROPOSED WELL	issuance of the permit does not assure the applicant that no injury will occur to another vested water
County Pueblo	right or preclude another owner of a vested water right from seeking relief in a civil court action.
Twp. 21 5, Rng. 64 W, Section 20	1) APPROVED PUHSUANT TO C.R.S. 37-90-137(2) TO SATISFY THE PREMIT REQUIREMENTS OF C.R.S. 37-90-138(3). USE OF THIS WELL IS LIMITED TO MONITORING WATER LEVELS AND/OR WATER QUALITY SAMPLING.
(3) WATER USE AND WELL DATA	2) THIS WELL MUST BE EQUIPPED WITH A LOCKING CAP OR SEAL TO PREVENT WELL CONTAMINATION OR
Proposed maximum pumping rate (gpm)	POSSIBLE HAZARDS AS AN OPEN WELL. THE WELL MUST BE KEPT LOCKED AT ALL TIMES EXCEPT DURING SAMPLING OR MEASURING.
Average annual amount of ground water to be appropriated (acre-feet):	3) RECORDS OF WATER LEVEL MEASUREMENTS AND WATER QUALITY ANALYSES SHALL BE MAINTAINED BY THE WELL OWNER AND SUBMITTED TO THE DIVISION OF
Number of acres to be irrigated:	WATER RESOURCES UPON REQUEST. 4) UPON CONCLUSION OF THE MONITORING PROGRAM, THE APPLICANT SHALL PLUG AND ABANDON THIS WELL
Proposed total depth (feet): 20	IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR WATER WELL CONSTRUCTION AND PUMP
Aquifer ground water is to be obtained from:	INSTALLATION CONTRACTORS. 5) THE OWNER SHALL MARK THE WELL IN A CONSPICU-
Allurium	OUS PLACE WITH APPROPRIATE WELL PERMIT NUMBER AND NAME OF THE AQUIFER. HE SHALL TAKE
Owner's well designation	NECESSARY MEANS AND PRECAUTIONS TO PRESERVE THESE MARKINGS. 1/24/47
GROUND WATER TO BE USED FOR:	7277
() HOUSEHOLD USE ONLY - no irrigation (0) () DOMESTIC (1) () INDUSTRIAL (5) () LIVESTOCK (2) () IRRIGATION (6) () COMMERCIAL (4) () MUNICIPAL (8)	
(x) OTHER (9) ground water monitoring	APPLICATION APPROVED
DETAIL THE USE ON BACK IN (11)	PERMIT NUMBER 032283 - M
(4) <u>DRILLER</u>	DATE ISSUED AUG 25 1987
Name Hier Drilling Co.	4UO O F 1000
	EXPIRATION DATE AUG 25 1988
	Juin U. Nanielson
City Castle Rock Colo SOLOH	(STATE ENGINEER)

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below.	(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.
Use the CENTER SECTION (1 section, 640 acres) for the well location.	1115 ft. from South sec. line
1 MILE, 5280 FEET	2625 ft. from East sec. line
+ + + + + + + + +	LOTBLOCKFILING #
	<u>,</u>
+ - + - + NORTH SECTION LINE - + - +	SUBDIVISION NONE
NORTH,	(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: Dublic Service
· · · · · · · · · · · · · · · · · · ·	No, of acres Will this be
	the only well on this tract?
+ + + 5 + -+-	(8) PROPOSED CASING PROGRAM
	Plain Casing
* ■ * * * * * * * * * * * * * * * * * * *	in. from + Z ft. to 3 ft.
SOUTH SECTION LINE	in. from ft. ft. to 15 ft.
	4_ in. fromft. toft.
+ + + + + + + + + +	in, from ft. to ft.
	(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging
+-+-+-+-+	it:
The scale of the diagram is 2 inches = 1 mile Each small square represents 40 acres.	
WATER EQUIVALENTS TABLE (Rounded Figures) An acre-foot covers 1 acre of land 1 foot deep 1 cubic foot per second (cfs) 449 gallons per minute (gpm) A family of 5 will require approximately 1 acre-foot of water per year. 1 acre-foot 43,560 cubic feet 325,900 gallons. 1,000 gpm pumped continuously for one day produces 4.42 acre-feet.	· · · · · · · · · · · · · · · · · · ·
(10) LAND ON WHICH GROUND WATER WILL BE USED:	
Owner(s): Public Service	No. of acres:
Legal description: (See Frant) Comanche Stead	n Plant / Pueblo
(11) DETAILED DESCRIPTION of the use of ground water: Household system to be used.	· · · · · · · · · · · · · · · · · · ·
(12) OTHER WATER RIGHTS used on this land, including wells. Give	e Registration and Water Court Case Numbers
Type or right Used for (purpose)	Description of land on which used
<u>unknown</u>	
(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION TRUE TO THE BEST OF HIS KNOWLEDGE.	ON SET FORTH HEREON IS
~ Allow	
SIGNATURE OF APPLICANTS)	

INK.

THIS FORM MUST BE SUBMITTED

WITHIN 60 DAYS OF COMPLETION

OF THE WORK DESCRIBED HERE-ON, TYPE OR PRINT IN BLACK

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818 Denver, Colorado 80203

RECEIVED

OCT 2 3 1987

WELL COMPLETION AND PUMP INSTALLATION REPORT PERMIT NUMBER

WATER RESOURCES STATE - ENGINEER

WELL O	WNER_	Public Service		SW	¼ of th	eS	SE 4 of	to. Sec	20	,
ADDRES	ss _ <i><u>5</u>90</i>	00 E. 39th Ave. Denver, CO 802	207	т	_ <u>s</u> , _F	3. <u>64</u>	<u> </u>	6		P.M.
DATE C	OMPLET	September 4	19 <u>87</u>	HOLE DIA	METER					
		WELL LOG		8 in	. from0	to1	.3ft.			
From	То	Type and Color of Material	Water Loc.	in	. from	to	ft.			
0	10	Brown clay		in	. from METHOD_					
10	13	Brown sandstone Bottom		CASING RE						
		20000311		Size 6. 5/	8& kind _	Steel	from <u></u> +	3. 5 to .	<u>3.5</u>	_ ft.
				Size 4 <u>1</u> 2	& kind _	PVC	_ from _±	2 to	6	_ ft.
				Size _41/2	_ & k ind _	_PVC	from <u>11</u>	<u>K</u> to .	13	_ ft.
·						Perforat	ed Casing			
				Size 41	& kind	_Pvc_	from	<u>6to_</u>	11	_ ft.
		Volclay seal @ 4' up to 3.5'		Size	_ & kind _		from	to .		_ ft.
	:			Size	_ & kind _		from	to .		_ ft.
				OBOUTING						
				GROUTING Material _		emen+				
							to surf	a.ce	•	
							Hallibu			
				Interval _			8-12 3' up to			
				miervai _			<u>, , , , , , , , , , , , , , , , , , , </u>			
				TEST DAT	A					
				Date Test	ed				_ , 19	
			-	Static Wat	ter Level P	rior to T	est			_ ft.
	زدني			Type of T	est Pump					
				Length of	Test					
	·	TOTAL DEPTH 13'								
	Use a	dditional pages necessary to complete log.		Final Pum	iping Wate	r Level _				# 7 1 1

PUMP INSTALLATION REPORT	Г				٨	18 (1944)
Pump Make	<u> </u>					y
Type						
Powered by	НР					
Pump Serial No.		†	^		# # # # # # # # # # # # # # # # # # #	
Motor Serial No.					/EL WA	WATER TABLE
Date Installed			ľ	ا الخري	TATIO	
Pump Intake Depth				(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	MTE A	
Remarks	·	***			9	
				1	DOWN	
.≠d / A±	Λ.		INTAKE		DRAW	
WELL TEST DATA WITH PERMANENT PUMP		DE P TH	<u> </u>		YYY_	
Date Tested	· .	1	E			CONE OF
Static Water Level Prior to Test		TOTAL	96	1.0 F.V.		DEPRESSIO
Length of Test	. Hours		, i			
Sustained yield (Metered)	GPM	., .		3		
Pumping Water Level						
Remarks						
			<u> </u>			
and the second of the second				<u> </u>		
$\sigma_{\rm tot} = 1.05$						
-		<u> </u>		<u> </u>		
CONTRACTORS STATEMENT						
The undersigned, being duly sworn upump installation described hereon; thereof, and that the same is true of l	that he has re his own know	ead the statement i ledge.	he is the c made here	ontractor o eon; knows	of the well of the conter	or nt
Signature Longe	d . N.	-e-)		License No	o. <u>735</u>	
State of Colorado, County of _		Douglas	· · · · · · · · · · · · · · · · · · ·	SS .		۷.
Subscribed and sworn to before	me this <u>24</u>	day of <u>Septem</u>	ber,	19 30 587		
My Commission expires:	_February :	<u>23</u>				

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer, PINK COPY is for the Owner and YELLOW COPY is for the Oriller.

Notary Public

COLORADO DIVISION OF WATER RESOURCES ₩RJ-5-Rev. 76 818 Centennial Bidg., 1313 Sherman St., Danver, Colorado 80203

Application must (90)	
be complete where	į
applicable. Type	ì
print in BLACK FOR:	ĭ
INK. No overstrikes	'
or erasures uple	i
initialed.	7
minimized.	

Owner's well designation

PERMIT APPLICATION FORM

applicable. Type A PERMIT TO print in <u>BLACK</u> INK. No overstrikes or erasures uple () REPLACEMEN () OTHER	USE GROUND WATER CONSTRUCT A WELL INSTALL A PUMP NT FOR NO T CASE NO
(1) APPLICANT - mailing address	FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN
	Receipt No. <u>79236C</u> /
STREET 5900 E. 39th Ave.	
CITY Denver, Colo. 80207	CONDITIONS OF APPROVAL
TELEPHONE NO. 329 - 1130	no material injury to existing water rights. The
(2) LOCATION OF PROPOSED WELL	issuance of the permit does not assure the applicant that no injury will occur to another vested water
County E H. Pueblo	right or preclude another owner of a vested water right from seeking relief in a civil court action.
NE ¼ of the SW ¼, Section 20 Twp. 2/ 5 , Rng. 64 W (E,W), 6th P.N	1) APPROVED PURSUANT TO C.R.S. 37-90-137(2) TO SATISFY THE PERMIT REQUIREMENTS OF C.R.S. 37-90-138(3). USE OF THIS WELL IS LIMITED TO MONITORING WATER LEVELS AND/OR WATER QUALITY SAMPLING.
(3) WATER USE AND WELL DATA	2) THIS WELL MUST BE EQUIPPED WITH A LOCKING CAP OR SEAL TO PREVENT WELL CONTAMINATION OR
Proposed maximum pumping rate (gpm)	POSSIBLE HAZARDS AS AN OPEN WELL. THE WELL MUST BE KEPT LOCKED AT ALL TIMES EXCEPT DURING SAMPLING OR MEASURING.
Average annual amount of ground water to be appropriated (acre-feet):	3) RECORDS OF WATER LEVEL MEASUREMENTS AND WATER QUALITY ANALYSES SHALL BE MAINTAINED BY THE WELL OWNER AND SUBMITTED TO THE DIVISION OF
Number of acres to be irrigated:	WATER RESOURCES UPON REQUEST. 4) UPON CONCLUSION OF THE MONITORING PROGRAM,
Proposed total depth (feet):	I FOR WATER WELL CONSTRUCTION AND PUMP
Aquifer ground water is to be obtained from:	INSTALLATION CONTRACTORS. 5) THE OWNER SHALL MARK THE WELL IN A CONSPICU-

GROUND WATER TO BE USED FOR:

Alluvium

) HOUSEHOLD USE ONLY - no irrigation (0)) INDUSTRIAL (5)) DOMESTIC (1)) IRRIGATION (6)) LIVESTOCK (2)

) COMMERCIAL (4)) MUNICIPAL (8)

ACOTHER (9) ground water monitoring DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Telephone No. __ <u>488- 3012</u> Lic. No. __

APPLICATION APPROVED

032284 -M PERMIT NUMBER DATE ISSUED. AUG **EXPIRATION DATE**

OUS PLACE WITH APPROPRIATE WELL PERMIT NUMBER AND NAME OF THE AQUIFER. HE SHALL TAKE NECESSARY MEANS AND PRECAUTIONS TO PRESERVE THESE MARKINGS. KVH 4/24/87

SIGNATURE OF APPLICANTIS	
TRUE TO THE BEST OF HIS KNOWLEDGE.	
(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATI	ON SET FORTH HEREON IS
<u>whthour</u>	<u> </u>
(12) OTHER WATER RIGHTS used on this land, including wells. Giv Type or right Used for (purpose)	e Registration and Water Court Case Numbers. Description of land on which used
system to be used.	suel and analysis
(11) DETAILED DESCRIPTION of the use of ground water: Househo	
Legal description: See front) Commonly Stram	
(10) LAND ON WHICH GROUND WATER WILL BE USED: Owner(s): Public Securice	No. of acres:
A family of 5 will require approximately 1 acre-foot of water per year. 1 acre-foot 43,560 cubic feet 325,900 gallons. 1,000 gpm pumped continuously for one day produces 4.42 acre-feet.	
WATER EQUIVALENTS TABLE (Rounded Figures) An acre-foot covers 1 acre of land 1 foot deep 1 cubic foot per second (cfs) 449 gallons per minute (gpm)	APPLY LALLA LA A
The scale of the diagram is 2 inches = 1 mile Each small square represents 40 acres.	<u> </u>
The cools of the diagram : 2:	it:
	(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging
+ + + + + + + +	in. from ft. to ft.
SOUTH SECTION LINE	
+ + - SOUTH SECTION LINE	in, from +2 ft, to 15 ft. Perforated casing
	<u>6</u> in. from <u>+2</u> ft. to <u>3</u> ft.
THE	Plain Casing
SECTION + - +	(8) PROPOSED CASING PROGRAM
	the only well on this tract?
+NORTH + + + + + + + + + + + + + + + + + + +	No. of acres 309 . Will this be
+ - + - 	(7) TRACT ON WHICH WELL WILL BE
NORTH SECTION LINE	SUBDIVISION None
+ + + + + + +	LOTBLOCKFILING #
4 1 MILE, 5280 FEET	2170 ft. from west
Use the CENTER SECTION (1 section, 640 acres) for the well location.	2250 ft. from South sec. line
(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below.	(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

WJR-26-77

WAELD

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818 Denver, Colorado 80203 RECEIVED

OCT 2 3 1987

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HERE-ON, TYPE OR PRINT IN BLACK INK.

WELL COMPLETION AND PUMP INSTALLATION REPORT
PERMIT NUMBER

SEATE ENGINEER
COLO.

WELL O	WNER_	Public Service		
ADDRE:	ss <u>590</u> 0	O E. 39th Ave. Denver, CO 80	207	T. 21 S , R. 64 W , 6 P.M.
DATE C	OMPLET	med Beptember 4	, 19 <u>87</u>	HOLE DIAMETER
		WELL LOG		8 in, from 0 to 11 ft,
From	То	Type and Color of Material	Water Loc.	in. from to ft.
0 7 11	7 11	Brown clay Baack shale Bottom		
		Volclay seal @ 4' up to 3.5	51	Size 4½ 8 kind PVC from 4 to 9 ft Size 8 kind from to ft Size 8 kind from to ft GROUTING RECORD Material Cement Intervals 3.3' up to surface Placement Method Halliburton
				GRAVEL PACK: Size 8-12 Interval 11' up to 4' TEST DATA Date Tested
	Use a	TOTAL DEPTH		Sustained Yield (Metered) Final Pumping Water Level

O THE TOTAL THE)	4
Pump Make	· · · · · · · · · · · · · · · · · · ·				4	×
Туре						
Powered by HP	·		<u></u>			<u> </u>
Pump Serial No.		1	1		E B	
Motor Serial No.		·	۲		EVEL. FIC WAT	WATER TABLE
Date Installed		·			, ન ફા≕	
Pump Intake Depth				1	MATER S	
Remarks				SANCE OF THE PARTY	9	
<u> </u>		*****			PUMPING	
+	. •		INTAKE		DRAWDOWN	
WELL TEST DATA WITH PERMANENT PUMP		DEPTH.	N	1 2 3	<u> </u>	
Date Tested	· · · · · ·		E T	100 mm		CONE OF
Static Water Level Prior to Test		TOTAL	DEPTH	200		DEPRESSIO
Length of Test	Hours					
Sustained yield (Metered)	_ GPM	1,	, ,	3	<u>-5 i.,</u>	
Pumping Water Level						
Remarks						
			<u> </u>	_		
$a_{-1} = a_{-1} = a_{-1}$						
es 1.11						
			,			
CONTRACTORS STATEMENT	•••	·	<u>.</u>			
The undersigned, being duly sworn upo pump installation described hereon; the thereof, and that the same is true of his	at he has	read the statement	he is the o made her	contractor c eon; knows	of the well of the conte	or nt
Signature Junge	R. 7	/us		License No	o. <u>735</u>	
State of Colorado, County of				SS	ن د در دورز در در دورزز	

My Commission expires: .

Subscribed and sworn to before me this _ 24_ day of ____September ____

<u>February 23 , 19 90 . . </u>

Telephone No. 688-3012 Lic. No.

COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bidg., 1313 Sherman St., Denver, Colorado 80203

PERMIT APPLICATION FORM

\$)) A PERMIT TO USE GROUND WATER A PERMIT TO CONSTRUCT A WELL) A PERMIT TO INSTALL A PUMP		
FOR:) A PERMIT TO INSTALL A PUMP) REPLACEMENT FOR NO	₩ .	
	į) OTHERWATER COURT CASE NO	·	-

applicable. Type of print in <u>BLACK</u> FOR: () A PERMIT TO II	
initialed () OTHER WATER COURT	CASE NO.
(1) APPLICANT - mailing address	FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN
NAME Howard Noble & Public Service	Receipt No. 79 236 D/
	Basin Dist.
CITY Deaver Colo - 8020)	
TELEPHONE NO. 329-1130	This well shall be used in such a way as to cause
(2) LOCATION OF PROPOSED WELL	no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water
County Pueblo Pueblo	right or preclude another owner of a vested water right from seeking relief in a civil court action.
<u> </u>	1) APPROVED PURSUANT TO C.R.S. 37-90-137(2) TO SATISFY THE PERMIT REQUIREMENTS OF C.R.S.
Twp. 21 5 Rng. 64 W (E,W)	37-90-138(3). USE OF THIS WELL IS LIMITED TO MONITORING WATER LEVELS AND/OR WATER QUALITY
(3) WATER USE AND WELL DATA	SAMPLING. 2) THIS WELL MUST BE EQUIPPED WITH A LOCKING CAP OR SEAL TO PREVENT WELL CONTAMINATION OR
Proposed maximum pumping rate (gpm)	CAP OR SEAL TO PREVENT WELL CONTAMINATION OR POSSIBLE HAZARDS AS AN OPEN WELL. THE WELL MUST BE KEPT LOCKED AT ALL TIMES EXCEPT DURING SAMPLING OR MEASURING.
Average annual amount of ground water to be appropriated (acre-feet):	3) RECORDS OF WATER LEVEL MEASUREMENTS AND WATER CHAILTY ANALYSES SHALL RE MAINTAINED BY
Number of acres to be irrigated:	THE WELL OWNER AND SUBMITTED TO THE DIVISION OF WATER RESOURCES UPON REQUEST. 4) UPON CONCLUSION OF THE MONITORING PROGRAM, THE APPLICANT SHALL PLUG AND ABANDON THIS WELL
Proposed total depth (feet):	THE APPLICANT SHALL PLUG AND ABANDON THIS WELL IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR WATER WELL CONSTRUCTION AND PUMP
Aquifer ground water is to be obtained from:	INSTALLATION CONTRACTORS, 5) THE OWNER SHALL MARK THE WELL IN A CONSPICU
Allavium	OUS PLACE WITH APPROPRIATE WELL PERMIT NUMBER AND NAME OF THE AQUIFER. HE SHALL TAKE
Owner's well designation	NECESSARY MEANS AND PRECAUTIONS TO PRESERVE THESE MARKINGS. XVH 7/24/87
GROUND WATER TO BE USED FOR:	
() HOUSEHOLD USE ONLY - no irrigation (0) () DOMESTIC (1) () INDUSTRIAL (5) () LIVESTOCK (2) () IRRIGATION (6) () COMMERCIAL (4) () MUNICIPAL (8)	
50) OTHER (9) ground water manitoring	APPLICATION APPROVED
DETAIL THE USE ON BACK IN (11)	PERMIT NUMBER
(4) DRILLER	DATE ISSUED AUG 25 1987
Name Hier Ocilling So	EXPIRATION DATE AUG 25 1988
Street P.O. Box 250	
city Costle Pock Colo. 80104	STATE ENGINEER)

which the w	ATION OF THE rater will be used multiple section (1 sec	ist be indicated of	on the diagrar	n below.	(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.
+-+-		++-	_		1070 ft. from South sec. line
ŀ	1 MILE,	5280 FEET	→ ¹	1	sec. line
+ +	+ +	+ +	+ +	+	LOTBLOCKFILING #
1	1		1		SUBDIVISION MONE
+	NORTH SE	CTION LINE	 	- +	-
I		1			(7) TRACT ON WHICH WELL WILL BE
+NORTH+	事 — + - ·		-	+	No. of acres 309 Will this be
↑ ↑	1	9	AST	1	the state of the s
	<u> </u>	;	SEC	1	the only well on this tract?
+ + +	S .			_ +	(8) PROPOSED CASING PROGRAM
1	LS.	,		1.	Plain Casing
+ +	*	 +	+	+	
ļ				1	4 in. from +2 ft. to 15 ft.
+ - + -	SOUTH SE	CTION LINE		- +	Perforated casing
1	1			· 	4_ in, from15ft, toft,
+ +	+ +	+ +-	+ +	+	in. from ft. to ft,
	,	1		†	(9) FOR REPLACEMENT WELLS give distance
+ - + -	- + - +	· + + -	, + - +	_ +	and direction from old well and plans for plugging it:
	The scale of the diagr Each small square			'	
1 cubic fo A family o 1 acré-foo	WATER EQUIV oot covers 1 acre of land ot per second (cfs) 4 of 5 will require approxis t 43,560 cubic feet . n pumped continuously (49 gallons per minu nately 1 acre-foot c 325,900 gallons.	te (gpm) if water per year	г.	
(10) LAND OF	WHICH GROU	ND WATER Y	VILL BE U	SED:	
Owner(s): Pu	<u>blic Jewic</u>	<u>-</u>			No. of acres:
Legal description:	Csee Front	d Come	She S	<u>₹₽~~</u>	Dart Pueblo
(11) DETAILE	D DESCRIPTION	of the use of gr	ound_water;	Househo	d use and domestic wells must indicate type of disposal.
system to be use	d.	CADM	مح منامعه	<u>ر او</u>	rel & analysis
(12) OTHER V	VATER RIGHTS	used on this lan	d, including	wells. Giv	e Registration and Water Court Case Numbers.
	or right		(purpose)		Description of land on which used
<u>unkne</u>	-		, ,		
-					
(13) THE APP	LICANT(S) STA			DRMATI	ON SET FORTH HEREON IS
SIGNATURE OF	APPLICANTISI	VIII			

WAEAD

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818 Denver, Colorado 80203 RECEIVED

OCT 2 3 1987

THIS FORM MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION OF THE WORK DESCRIBED HERE-ON. TYPE OR PRINT IN BLACK INK.

WELL COMPLETION AND PUMP INSTALLATION REPORT PERMIT NUMBER

WATER RESOURCES STATE ENGINEER COLO.

WELL O	WNER_	Public Service		SW	¼ of the	SW	¼ of Sec	, <u>20</u>)
ADDRES	s <u>590</u> 0	O E. 39th Ave. Denver, CO 802	07	т. <u>21</u>	<u> </u>	64	<u> w</u>	6	P,M,
DATE CO	OMPLE1	red <u>September 4</u>	, 19 <u>87</u>	HOLE DIAM	IETER				
		WELL LOG		8_ _{in.}	from O	_ to <u>29</u>	ft.		
From	То	Type and Color of Material	Water Loc.	in.	from	to	ft.		
0 7 27 29	7 27 29	Brown clay Sand & gravel Brown clay Bottom			METHOD CORD: & kind	Air r Plain C Steel	otary		
				Size <u>41</u>			_ from <u>27</u>	to	<u>29</u> _ft,
		Volclay seāl @ 4' up to 3.5	•	Size Size GROUTING Material Intervals	& kind & kind & kind RECORD	Cement	from 7 from	to to ace	ft. ft.
				GRAVEL PA Interval TEST DATA Date Tested	CK: Size	29	8-12 'up to 4'		•
				Type of Tes	st Pump _				
	Use at	TOTAL DEPTH29'		Sustained Y Final Pump					

PUMP INSTALLATION REPORT)	*
Pump Make				100 S	3	•
Type					3926	
Powered by HP		-				<u>``\</u>
Pump Serial No.	,	1	1			
Motor Serial No.					VEL VEL	WATER TABLE
Date Installed				الآرية	R LEV	
Pump Intake Depth					A TE	
Remarks						
1.00, 1.1					PUMPING	
in the state of t	1 1 X		YKE.		DRAW	
WELL TEST DATA WITH PERMANENT PUMP		DEPTH	O INTAKE		<u> </u>	
Date Tested		<u>.</u> i	E] .	CONE OF
Static Water Level Prior to Test		TOTAL	DEPTH			DEPRESSIO
Length of Test	Hours					
Sustained yield (Metered)	. GPM	در ره ا		15	10.10	
Pumping Water Level						
Remarks				100 (100) 100 (100)		
**************************************				1		
*, :::						
		<u> </u>	<u> </u>			
CONTRACTORS STATEMENT					*	
The undersigned, being duly sworn upo pump installation described hereon; th thereof, and that the same is true of his	at he ha	s read the statement				
Signature Leozge R.	2/ci1			License N	o. <u>735</u>	_
State of Colorado, County of		Douglas		SS	ئ. يۇندائىق بايدىيىلى	42
Subscribed and sworn to before m	e this	24 day of September	er	19 87	و 2.4 آن آناً	

February 23 , 19 90 .

My Commission expires:

Notary Public_